

HEART Pocket AED

Semi-Automatic

Product Data Sheet



Compact and lightweight

The **St John Ambulance HEART Pocket** AEDs are significantly lighter and smaller than traditional models, featuring a 2/3 reduction in weight and a 3/4 reduction in volume, while maintaining the same therapeutic efficacy.

Weighing less than 0.7 kg, these compact devices are ideal for deployment by trained personnel and can be easily stored in home first-aid kits, ensuring quick accessibility during critical situations.

Rugged durability and reliability in demanding conditions

With an impressive IP65 rating for dust and water resistance, the device is designed for operation in the harshest environments. Its reinforced construction ensures exceptional performance under extreme conditions, demonstrating remarkable resilience to various environmental challenges.

Additionally, it has successfully passed a rigorous drop test from 1.5 metres, confirming its ability to withstand emergencies in tough situations.

Product model

HEART Pocket

Size (H x W x L) cms:	5.3 x 8.6 x 15
Weight (including batteries, pads):	Less than 0.7kg
Child Mode:	Yes
Dust & Water Resistance Level:	IP65
Drop Impact Resistance:	1.5m

Product highlights

- Patented Tiny Combine™ technology:
 1. Portable and lightweight – 5.3(H) x 8.6(W) x 15cm(L) <0.7kg
 2. IP65 protects against dust and wet environments
 3. Drop tested to 1.5 metres
- One-touch operation: Power on and defibrillation at the press of a button
- Smart Voice Guidance for intuitive user support
- Optional rechargeable battery
- Smart Pads (suitable for both adults and children) with a 5-year lifespan, allowing for biphasic shocks
- CPR support with metronome
- Time to shock less than 8 seconds
- Advanced algorithm capable of detecting implants, such as pacemakers and internal defibrillators
- Pacemaker pulse detection
- Stores 24 hours of ECG data
- Daily self-testing ensures the device, pads, and battery are always ready for use
- Supports 4G mobile communication and GPS positioning
- Pull-strap opening for PADS back cover, accessible in 1 second
- MDR Approved

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Specifications

Defibrillator

Waveform: Biphasic Truncated Exponential (BTE) Waveform

Impedance Range: 20 - 180Ω

Energy Level: Adults, energy released at 50Ω impedance: 150J, Child, energy released at 50Ω impedance: 50J

CPR Coaching: CPR instructions are available, with metronome and hand placement instructions

CPR Protocol: Comply with ERC/AHA 2020 guideline.

Charge/Discharge Time (Rechargeable Battery):

The time from the prompt of "Shock Advised" to when the shock can be performed: Typically less than 8 seconds

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Arrhythmia Analysis

Accuracy: Comply with IEC60601-2-4 requirements

Analysis Time: Typically 8 seconds

Controls

Shock Control: Semi-automatic (press the shock button to deliver energy)

Function Button: Users can adjust the volume, switch between rescue mode and VF/VT detection mode

Certification: ISO13485, NMPA

Safety Standard:

- IEC 60601-1:2005+A1:2012
- IEC 60601-2-4:2010+Amd1:2018
- IEC 60601-1-2:2014
- IEC 60601-1-12:2014

User Interface

User Guidance: Voice and light guidance

Child Button: Easily switch to Child Mode

Device Status Indicator: Visual indicators help to monitor the status of the main device, electrodes, and battery. Flashing green light indicates the device is normal. Flashing red light indicates the device requires maintenance.

Environmental Parameters

Operating/Storage Temperature: -15°C ~ +50°C

One Hour Operating Temperature Limit (extreme cold): -20°C

Short-term Storage/Transport Temperature: -40°C ~ +70°C, within one week, with battery and pads uninstalled.

Atmospheric Pressure: 59,4KPa ~ 106KPa

Relative Humidity: 5% ~ 95% (no condensation)

Ingress Protection: IP65

Altitude: 4500M

Physical Characteristics

Height: 5.3 cm

Width: 8.6 cm

Length: 15 cm

Weight: 0.7kg (including battery and pads)

Tolerable Impact/Fall Damage: Can withstand free fall damage from a height of 1.5M onto hard surfaces

Accessories (Disposable Battery)

Type: Lithium manganese dioxide (LiMnO₂ Battery), 12V/1500mAh (Standard)

Capacity: At 20°C±2°C, the new battery can discharge 130 times at 150J

Operation Life (standby): 3 years (typical)

Low Battery Status: A battery that indicates low battery can still be used 30 times at 150J

Accessories (Rechargeable Battery)

Type: Lithium Ion (Li-ion Battery), 7V/3450mAh (Optional)

Capacity: At 20°C±2°C, the new battery can discharge 250 times at 150J

Operation Life (standby): 3 months before recharge

Recharge Times: 3 hours and 40 minutes or less

Low Battery Status: A battery that indicates low battery can still be used 30 times at 150J

Accessories (Pads)

Pads: Suitable for both adult and child

Operation Life (standby): 5 years

Cable Length: ≥ 1.0M

Storage Space: Pads can be stored in the pads storage box at the back of the device

Communications

Communication: Bluetooth/GPS positioning

Overall Device

Date of Production: See label on the back of the device

Service Life: 10 years